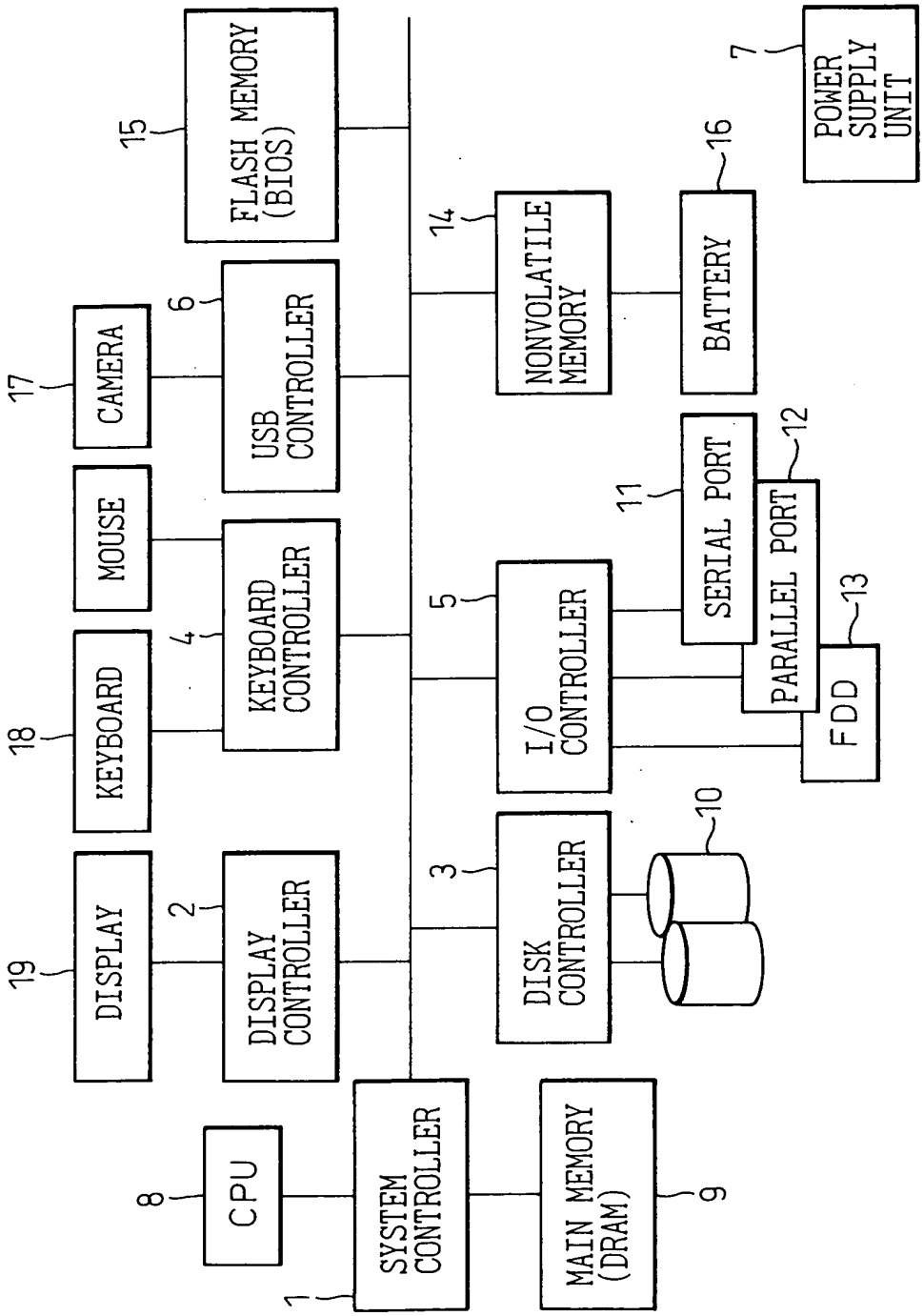
Fig.1


1
SYSTEM CONTROLLER
8
CPU
9
MAIN MEMORY (DRAM)
2
DISPLAY CONTROLLER
19
DISPLAY
4
KEYBOARD CONTROLLER
18
KEYBOARD
MOUSE
6
USB CONTROLLER
17
CAMERA
15
FLASH MEMORY (BIOS)
3
DISK CONTROLLER
10
5
I/O CONTROLLER
11
SERIAL PORT
12
PARALLEL PORT
13
FDD
14
NONVOLATILE MEMORY
16
BATTERY
7
POWER SUPPLY UNIT

FOREIGN 6897260

Fig.2

| DATA AREA NAMES | STORAGE PLACE | SIZE |
|---|---|---|
| PARAMETER 1 (RECORDING TIMING)<br>BIT 0: RECORD WHEN THE POWER SUPPLY IS TURNED ON<br>BIT 1: RECORD WHEN THE APPARATUS IS RESUMED<br>BIT 2: RECORD WHEN BIOS SETUP PROGRAM IS ACTIVATED<br>BIT 3: RECORD WHEN AN ILLEGAL PASSWORD IN ENTERED | CMOS RAM | 1 BYTE |
| PARAMETER 2 (FORMAT)<br>NUMBER OF PIXELS/NUMBER OF COLORS,etc. | CMOS RAM | 1 BYTE |
| PARAMETER 3 (WRITING MODE)<br>0: OVERWRITING<br>1: APPENDING | CMOS RAM | 1 BYTE |
| IMAGE DATA MANAGEMENT HEADER<br>POINTER FOR LEADING IMAGE DATA | FLASH MEMORY | 4 BYTES |
| IMAGE DATA<br>POINTER FOR THE NEXT IMAGE DATA<br>TIME WHEN IMAGE DATA IS RECORDED<br>TIMING OF RECORDING IMAGE DATA<br>IMAGE DATA FORMAT<br>DATA | FLASH MEMORY | 4 BYTES<br>8 BYTES<br>1 BYTE<br>1 BYTE<br>n BYTES |

Fig.3A

| FUNCTION: RETURN THE CURRENT SETTING OF IMAGE INFORMATION RECORDING TIMING |
|---|
| WORD (*entryPoint)(Function,Trigger); /*For 32bit Protected Mode*/<br>WORD Function; /*Function 0x0000*/<br>BYTE *Trigger;<br><br>*Trigger:<br>Bit[7:4] RESERVE<br>Bit[3] 0: NO RECORDING HAPPENS WHEN AN ILLEGAL PASSWORD IS ENTERED<br>1: RECORDING HAPPENS WHEN AN ILLEGAL PASSWORD IS ENTERED<br>Bit[2] 0: NO RECORDING HAPPENS WHEN BIOS SETUP PROGRAM IS ACTIVATED<br>1: RECORDING HAPPENS WHEN BIOS SETUP PROGRAM IS ACTIVATED<br>Bit[1] 0: NO RECORDING HAPPENS WHEN THE APPARATUS IS RESUMED<br>1: RECORDING HAPPENS WHEN THE APPARATUS IS RESUMED<br>Bit[0] 0: NO RECORDING HAPPENS WHEN THE POWER SUPPLY IS TURNED ON<br>1: RECORDING HAPPENS WHEN THE POWER SUPPLY IS TURNED ON |
| FUNCTION: SET IMAGE INFORMATION RECORDING TIMING |
| DITTO |

Fig.3B

| FUNCTION: RETURN THE CURRENT SETTING OF IMAGE INFORMATION RECORDING FORMAT | |
|---|---|
| WORD (*entryPoint)(Function,Format);<br>WORD Function;<br>BYTE *Format;<br><br>*Format:<br>Bit[7:4] THE NUMBER OF PIXELS<br>0: 320x240<br>1: 640x480<br>2: 1024x768 etc.<br>Bit[3:0] THE NUMBER OF COLORS<br>0: 4bit(16)<br>1: 8bit(256)<br>2: 16bit(65536)etc. | /*For 32bit Protected Mode*/<br>/*Function 0x0002*/ |
| FUNCTION: SET IMAGE INFORMATION RECORDING FORMAT | |
| DITTO | |

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Fig.3C

| FUNCTION: RETURN THE CURRENT SETTING OF IMAGE INFORMATION WRITING MODE | |
|---|---|
| WORD (*entryPoint)(Function,Mode);<br>WORD Function;<br>BYTE *Mode;<br><br>*Mode:<br><br>Bit[7:0] WRITING MODE<br>0: OVERWRITING<br>1: APPENDING | /*For 32bit Protected Mode*/<br>/*Function 0x0004*/ |
| FUNCTION: SET IMAGE INFORMATION WRITING MODE | |
| DITTO | |

Fig.4

| IMAGE RECORDING | |
|---|---|
| IMAGE RECORDING STATUS: | EXIST |
| DISPLAY RECORDED IMAGE | 【Eneter】 |
| WHEN THE POWER SUPPLY IS TURNED ON: | 【NO RECORD】 |
| WHEN THE SYSTEM IS RESUMED: | 【NO RECORD】 |
| WHEN THE BIOS SETUP IS ACTIVATED: | 【NO RECORD】 |
| WHEN ILLEGAL PASSWORD IS ENTERED: | 【RECORD】 |
| IMAGE SIZE: | 【640x480 PIXELS】 |
| IMAGE COLORS: | 【256 COLORS】 |
| RECORDING MODE: | 【APPENDING】 |
| DELETE RECORDED IMAGE | 【Eneter】 |

JP00ETO" 6697260

Fig.5

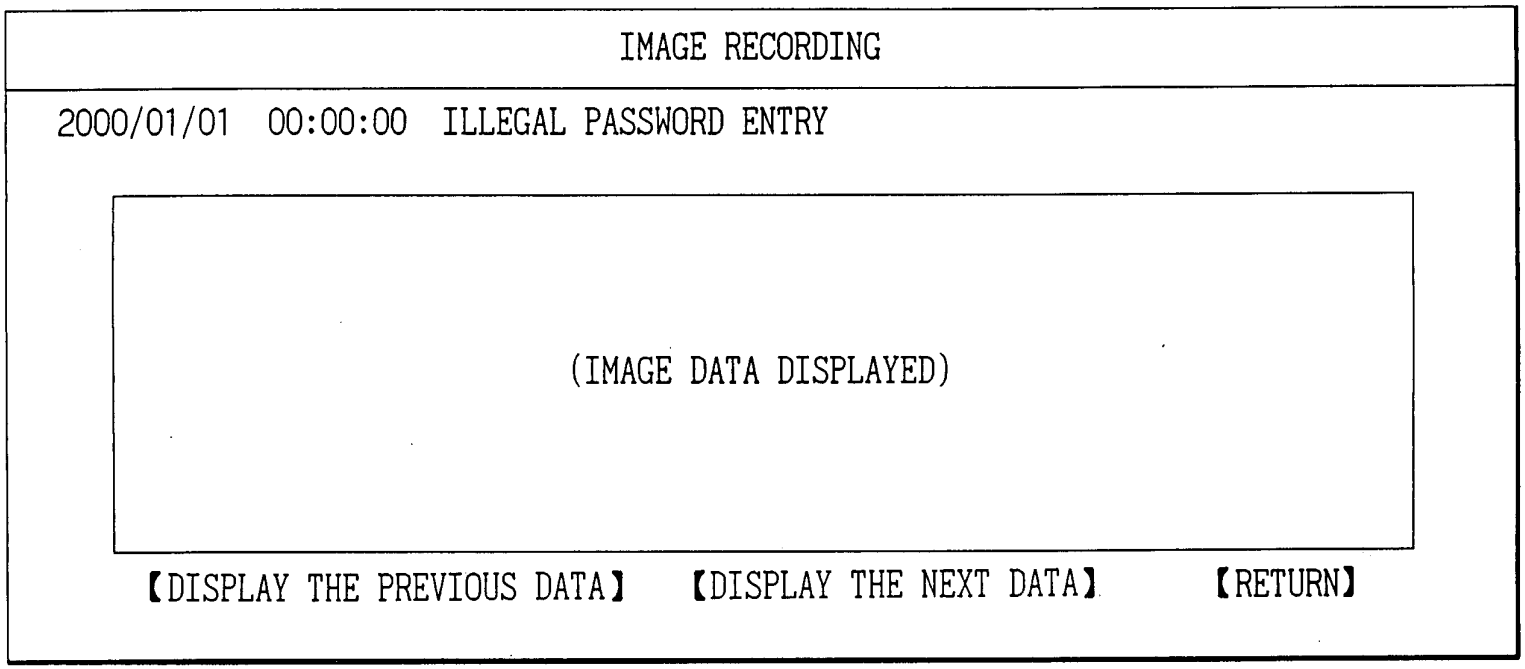

Fig.6

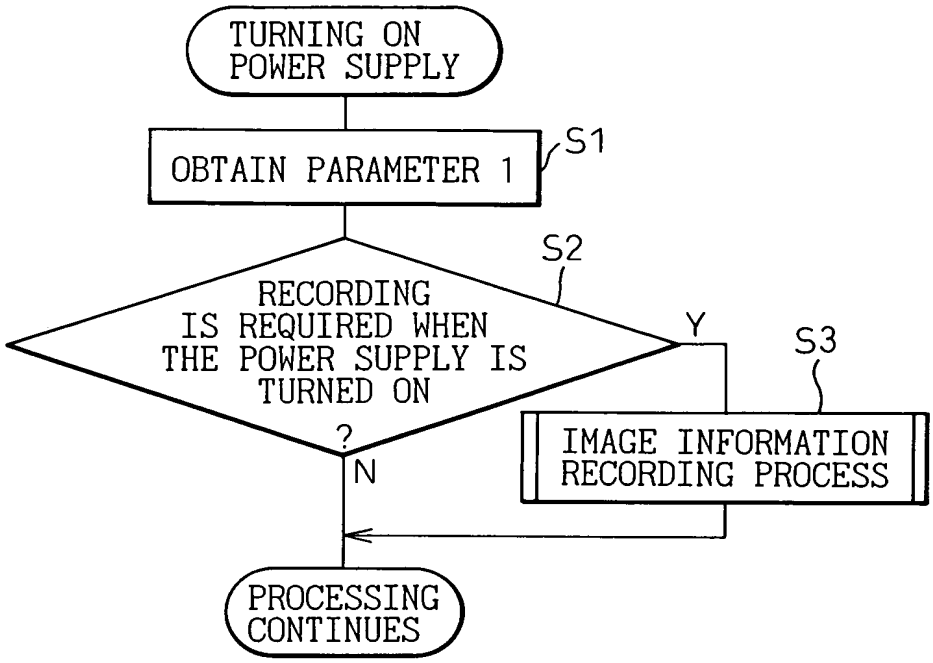
TURNING ON POWER SUPPLY
OBTAIN PARAMETER 1
S1
S2
RECORDING IS REQUIRED WHEN THE POWER SUPPLY IS TURNED ON ?
Y
N
S3
IMAGE INFORMATION RECORDING PROCESS
PROCESSING CONTINUES

Fig.7

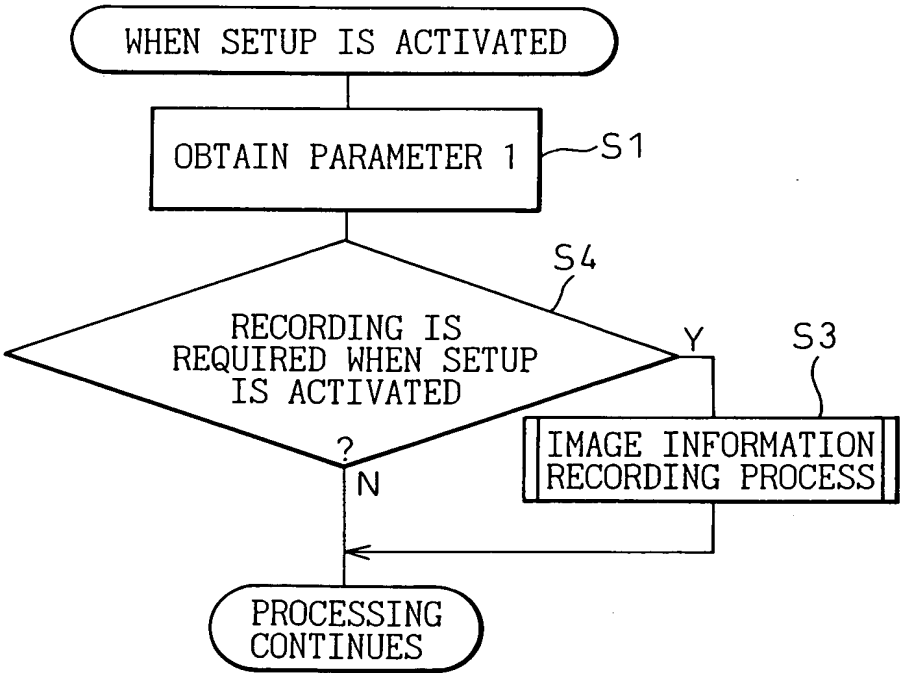
WHEN SETUP IS ACTIVATED
OBTAIN PARAMETER 1
S1
S4
RECORDING IS REQUIRED WHEN SETUP IS ACTIVATED ?
Y
N
S3
IMAGE INFORMATION RECORDING PROCESS
PROCESSING CONTINUES

Fig.8

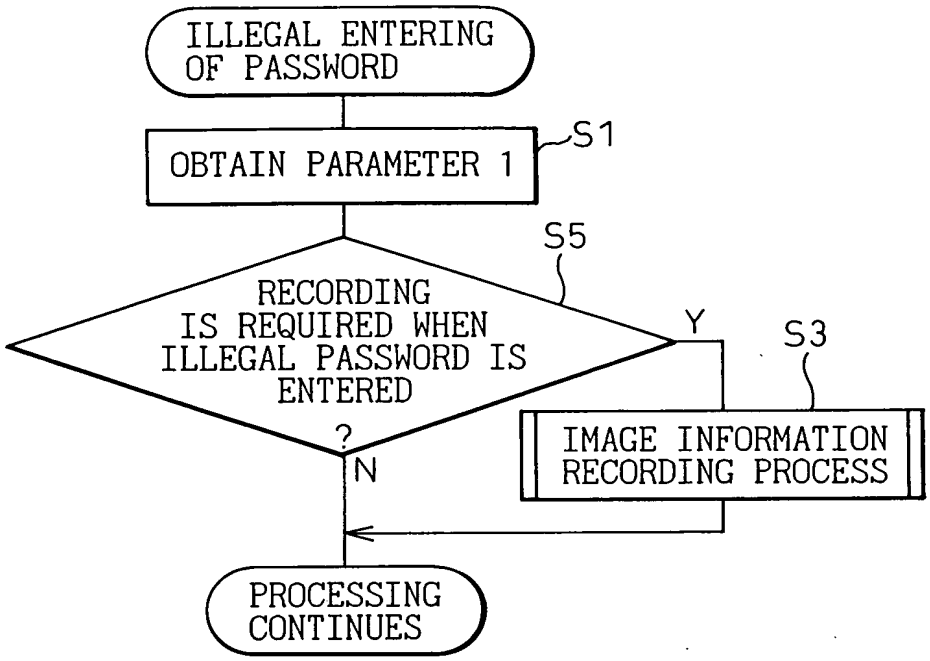
ILLEGAL ENTERING OF PASSWORD
OBTAIN PARAMETER 1
S1
S5
RECORDING IS REQUIRED WHEN ILLEGAL PASSWORD IS ENTERED ?
Y
S3
IMAGE INFORMATION RECORDING PROCESS
N
PROCESSING CONTINUES

Fig.9

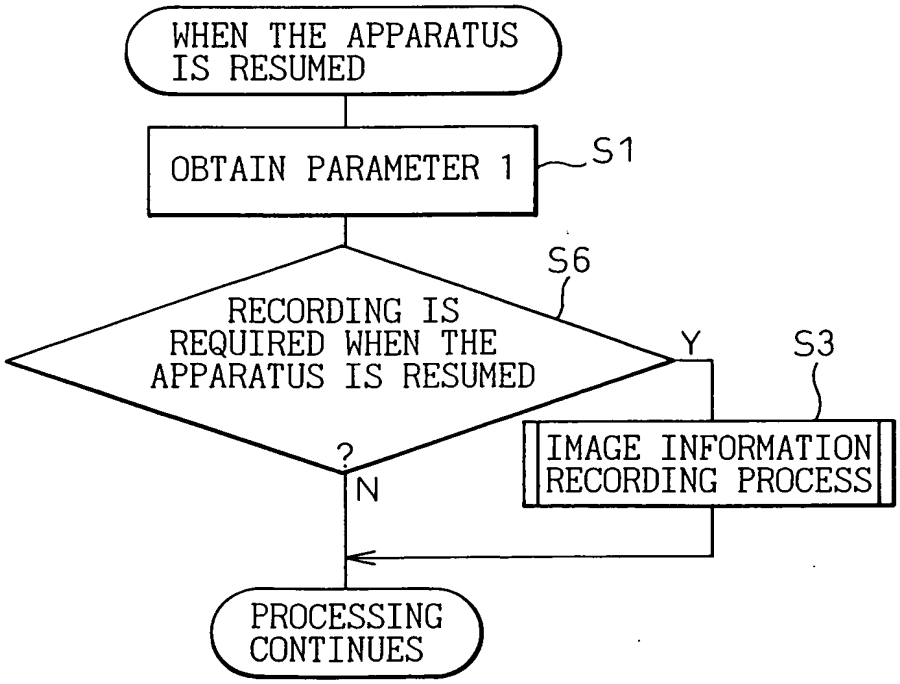
WHEN THE APPARATUS IS RESUMED
OBTAIN PARAMETER 1
S1
S6
RECORDING IS REQUIRED WHEN THE APPARATUS IS RESUMED ?
Y
S3
IMAGE INFORMATION RECORDING PROCESS
N
PROCESSING CONTINUES

Fig.10

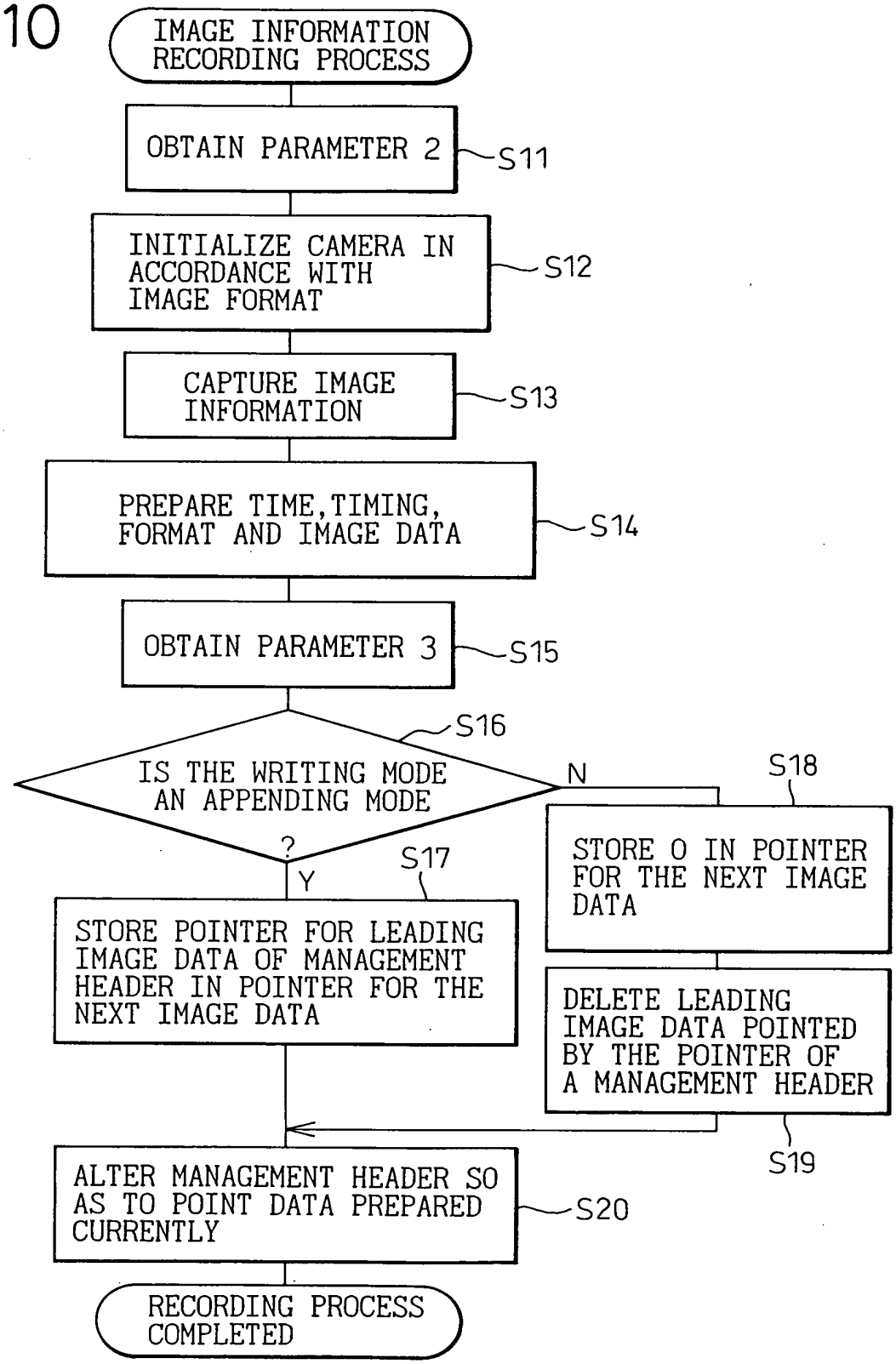
IMAGE INFORMATION RECORDING PROCESS
OBTAIN PARAMETER 2
S11
INITIALIZE CAMERA IN ACCORDANCE WITH IMAGE FORMAT
S12
CAPTURE IMAGE INFORMATION
S13
PREPARE TIME, TIMING, FORMAT AND IMAGE DATA
S14
OBTAIN PARAMETER 3
S15
S16
IS THE WRITING MODE AN APPENDING MODE ?
N
S18
STORE 0 IN POINTER FOR THE NEXT IMAGE DATA
DELETE LEADING IMAGE DATA POINTED BY THE POINTER OF A MANAGEMENT HEADER
Y
S17
STORE POINTER FOR LEADING IMAGE DATA OF MANAGEMENT HEADER IN POINTER FOR THE NEXT IMAGE DATA
S19
ALTER MANAGEMENT HEADER SO AS TO POINT DATA PREPARED CURRENTLY
S20
RECORDING PROCESS COMPLETED